Product data sheet Characteristics

LC1D65AB7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 24 V AC 50/60 Hz coil





Main

TeSys D	
TeSys	
TeSys D	
Contactor	
LC1D	
Motor control Resistive load	
AC-3 AC-1 AC-4	
3P	
3 NO	
<= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit	
80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 65 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit	
11 kW at 400 V AC 50/60 Hz AC-4 30 kW at 380400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 37 kW at 660690 V AC 50/60 Hz AC-3 18.5 kW at 220230 V AC 50/60 Hz AC-3	
40 hp at 460/480 V AC 50/60 Hz 3 phases motors 5 hp at 115 V AC 50/60 Hz 1 phase motors 10 hp at 230/240 V AC 50/60 Hz 1 phase motors 20 hp at 200/208 V AC 50/60 Hz 3 phases motors 20 hp at 230/240 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors	
AC 50/60 Hz	
24 V AC 50/60 Hz	
1 NO + 1 NC	
	TeSys D Contactor LC1D Motor control Resistive load AC-3 AC-1 AC-4 3P 3 NO <= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit 80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 65 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 11 kW at 400 V AC 50/60 Hz AC-3 37 kW at 380400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 18.5 kW at 220230 V AC 50/60 Hz AC-3 40 hp at 460/480 V AC 50/60 Hz 1 phase motors 5 hp at 115 V AC 50/60 Hz 1 phase motors 10 hp at 230/240 V AC 50/60 Hz 3 phases motors 20 hp at 230/240 V AC 50/60 Hz 3 phases motors 20 hp at 230/240 V AC 50/60 Hz 3 phases motors 20 hp at 575/600 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors 4C 50/60 Hz 24 V AC 50/60 Hz

[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	
Overvoltage category		
[lth] conventional free air thermal current	80 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit	
Irms rated making capacity	1000 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	1000 A at 440 V power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 520 A <= 104 °F (40 °C) 10 s power circuit 900 A <= 104 °F (40 °C) 1 s power circuit 110 A <= 104 °F (40 °C) 10 min power circuit 260 A <= 104 °F (40 °C) 1 min power circuit	
Associated fuse rating	125 A gG at <= 690 V coordination type 1 power circuit 125 A gG at <= 690 V coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1	
Average impedance	1.5 mOhm at 50 Hz - Ith 80 A power circuit	
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL	
Electrical durability	1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.4 Mcycles 80 A AC-1 at Ue <= 440 V	
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1	
Protective cover	With	
Mounting support	Rail Plate	
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	
Product certifications	CCC UL GOST CSA	
Connections - terminals Tightening torque	Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end	
rigilieriling torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 70.8 lbf.in (8 N.m) - on EverLink BTR screw connectors - cable 0.040.05 in² (2535 mm²) hexagonal 0.16 in (4 mm) Power circuit : 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal 4 mm	
Operating time	1226 ms closing 419 ms opening	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	

Mechanical durability	6 Mcycles
Operating rate	3600 cyc/h at <= 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc drop-out at 140 °F (60 °C), AC 50/60 Hz 0.81.1 Uc operational at 140 °F (60 °C), AC 50 Hz 0.851.1 Uc operational at 140 °F (60 °C), AC 60 Hz	
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz 160 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz	
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 15 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz	
Heat dissipation	45 W at 50/60 Hz	
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1	
Signalling circuit frequency	25400 Hz	
Minimum switching current	5 mA signalling circuit	
Minimum switching voltage	17 V signalling circuit	
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)	
Insulation resistance	> 10 MOhm signalling circuit	
Power range	1525 kW 200240 V 3 phases 3050 kW 380440 V 3 phases 3050 kW 480500 V 3 phases	
Motor starter type	Direct on-line contactor	
Contactor coil voltage	24 V AC standard	

Environment

LITTIONICITE	
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23140 °F (-560 °C)
Ambient air temperature for storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40158 °F (-4070 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	4.8 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Product weight	1.9 lb(US) (0.86 kg)

Ordering and shipping details

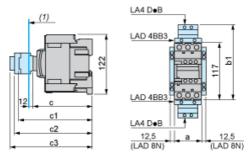
Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	l12
GTIN	00785901565475
Nbr. of units in pkg.	1
Package weight(Lbs)	2.08000000000001
Returnability	

Country of origin	ID	
Offer Sustainability		
Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0001 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Available	
Contractual warranty		
Warranty period	18 months	

Product data sheet Dimensions Drawings

LC1D65AB7

Dimensions



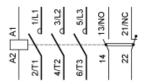
(1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LA4 D●2	-
with LA4 DB3 o	L1AND 4BB3	
with LA4 DF, DT 157		
with LA4 DM, D	V) 66L	
С	without cover or add-on blocks	118
with cover, with	ut 20dd-on blocks	
c1	with LAD N (1 contact)	-
with LAD N or C	(250° 4 contacts)	
c2	with LA6 DK10, LAD 6DK	163
c3	with LAD T, R, S	171
with LAD T, R,	4ភី ៩ sealing cover	

Product data sheet Connections and Schema

LC1D65AB7

Wiring



LC1D65AB7

Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power 30 kW and 415 VAC

Motor power (kW)	ICU (kA)	Breaker	Contactor (*)
30	50		
		GV3P65	LC1D65AB7

Non contractual pictures.

Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.